

**NOVEL ESTROGEN-REGULATED G PROTEIN GAMMA SUBUNIT:
COMPOSITIONS AND METHODS OF USE**

ABSTRACT OF THE DISCLOSURE

The present invention provides novel nucleic acid and protein sequences for an estrogen-regulated GTP-binding protein gamma-12 subunit protein, as well as methods for using the sequences for modulating the effects of estrogen in mammalian cells, methods of
5 detecting estrogen signaling in cells, and methods of identifying compounds capable of acting as an estrogen receptor agonist or antagonist.

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